

| L Number | Hits | Search Text | DB | Time stamp |
|----------|---------|---|------------------------------------|------------------|
| 13 | 14 | andrea.in. and omnidirectional | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/27 16:28 |
| - | 29 | "berndi, robert".in. "burson, steven".in. "gollbach, lawrence".in. "woo, allen".in. "bobisuthl, james".in. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/07 10:20 |
| - | 7 | ("3057960" "3109066" "5511128" "5586191" "5978490" "6005953" "6272229").PN. | USPAT | 2004/05/28 12:58 |
| - | 10 | ("4354059" "4393275" "4412097" "4589136" "4741038" "4752961" "4870690" "4941187" "5214709" "5303307").PN. | USPAT | 2004/05/28 13:03 |
| - | 4 | ("5208864" "5414776" "5602962" "5673327").PN. | USPAT | 2004/05/28 13:12 |
| 1411669 | | envelope integrat\$3 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 13:23 |
| - | 126 | 381/92.ccls. and (envelope integrat\$3) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 18:16 |
| 171614 | | envelope | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 13:24 |
| - | 28 | 381/92.ccls. and envelope | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 13:49 |
| - | 12598 | envelope near2 detect\$3 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 13:24 |
| - | 3 | 381/92.ccls. and (envelope near2 detect\$3) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 13:31 |
| - | 988296 | averag\$3 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 13:31 |
| - | 103 | 381/92.ccls. and averag\$3 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 13:32 |
| - | 3723302 | amplitude level magnitude volume | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 13:32 |
| - | 112087 | averag\$3 with (amplitude level magnitude volume) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 13:33 |
| - | 27 | 381/92.ccls. and (averag\$3 with (amplitude level magnitude volume)) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 14:13 |

| | | | | |
|--|---------|---|------------------------------------|------------------|
| | 3525 | direction\$4 near3 (microphone input near2 transducer) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 14:14 |
| | 43 | (envelope near2 detect\$3) and (direction\$4 near3 (microphone input near2 transducer)) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 14:28 |
| | 21636 | omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/02 17:36 |
| | 4093212 | uni adj direction\$4 unidirection\$4 direction\$4 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 14:31 |
| | 4104026 | (omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4) ith (uni adj direction\$4 unidirection\$4 direction\$4) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 14:32 |
| | 119 | cardiod | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 14:33 |
| | 1221 | cardiod cardioid | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 14:33 |
| | 4093486 | uni adj direction\$4 unidirection\$4 direction\$4) (cardiod cardioid | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 14:35 |
| | 13455 | (omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4) with ((uni adj direction\$4 unidirection\$4 direction\$4) (cardiod cardioid)) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 16:40 |
| | 2231591 | switch\$3 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 14:36 |
| | 466 | ((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4) with ((uni adj direction\$4 unidirection\$4 direction\$4) (cardiod cardioid))) with switch\$3 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 16:40 |
| | 106060 | microphon\$3 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 14:37 |
| | 101 | (((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4) with ((uni adj direction\$4 unidirection\$4 direction\$4) (cardiod cardioid))) with switch\$3) and microphon\$3 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 14:46 |
| | 108 | 381/94.7.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/02 17:20 |
| | 1278574 | integrat\$4 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 14:47 |

| | | | | |
|--|--------|--|------------------------------------|------------------|
| | 107 | 381/92.ccls. and integrat\$4 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 14:48 |
| | 99705 | absolute adj value | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 14:48 |
| | 307423 | absolute adj value rectif\$4 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 15:08 |
| | 18 | 381/92.ccls. and integrat\$4 and (absolute adj value rectif\$4) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 14:57 |
| | 254120 | (proper\$2 correct\$2) near2 position\$3 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 15:10 |
| | 189 | ((proper\$2 correct\$2) near2 position\$3) with microphon\$3 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 14:58 |
| | 14 | ((proper\$2 correct\$2) near2 position\$3) with microphon\$3 and LED | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 14:58 |
| | 6 | 4777649.URPN. | USPAT | 2004/05/28 15:00 |
| | 8176 | averag\$3 with (absolute adj value rectif\$4) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 15:09 |
| | 450 | (averag\$3 with (absolute adj value rectif\$4)) and microphon\$3 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 15:09 |
| | 567 | ((proper\$2 correct\$2) near2 position\$3) and 381/\$.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 15:11 |
| | 302 | ((proper\$2 correct\$2) near2 position\$3) and 381/\$.ccls. and microphon\$3 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 15:11 |
| | 31054 | ((proper\$2 correct\$2) near2 position\$3) with 96and 381/\$.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 15:11 |
| | 0 | ((proper\$2 correct\$2) near2 position\$3) with (averag\$3 with (absolute adj value rectif\$4)) and 381/\$.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 15:12 |
| | 80 | ((proper\$2 correct\$2) near2 position\$3) with microphon\$3 and 381/\$.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 15:29 |
| | 3 | 4445229.URPN. | USPAT | 2004/05/28 15:14 |
| | 6 | 4777649.URPN. | USPAT | 2004/05/28 15:23 |

| | | | | |
|--|-------|---|------------------------------------|------------------|
| | 17 | ("3109893" "4644107" "4777649" "4901354" "5007081" "5224151" "5255341" "5335276" "5337353" "5396443" "5657380" "5712911" "5806036" "5881377" "5890123" "6188986" "6243683").PN. | USPAT | 2004/05/28 15:24 |
| | 203 | 379/441.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 15:29 |
| | 78 | 379/441.ccls. and position\$4 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 15:30 |
| | 12 | 379/441.ccls. and position\$4 with indicat\$4 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 16:01 |
| | 376 | 379/396.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 16:01 |
| | 159 | 379/396.ccls. and (LED position\$4) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 16:02 |
| | 105 | 379/396.ccls. and (position\$4) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/05/28 16:02 |
| | 3 | ("5528663" "5950139" "6023779").PN. | USPAT | 2004/05/28 16:05 |
| | 252 | microphone near2 align\$4 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/02 16:35 |
| | 6 | ("1892644" "1892646" "2836656" "3057960" "3794766" "4061041").PN. | USPAT | 2004/06/01 12:30 |
| | 10231 | "david, e".in. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/01 12:33 |
| | 13681 | "david, e".in. @ad<19620101 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/01 12:34 |
| | 3 | "david, e".in. and @ad<19620101 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/01 12:35 |
| | 1 | 859684.apn. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/01 12:35 |
| | 0 | "david, jr., e".in. and @ad<19620101 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/01 12:36 |
| | 1 | "david, jr".in. and @ad<19620101 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/01 12:36 |

| | | | | |
|--|------|---|---|------------------|
| | 1 | "david jr edward".in. and @ad<19620101 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/01 15:03 |
| | 9 | 3057960.URPN. | USPAT | 2004/06/01 12:39 |
| | 7 | ("3057960" "3109066" "5511128" "5586191" "5978490" "6005953" "6272229").PN. | USPAT | 2004/06/01 12:40 |
| | 7 | ("3057960" "3109066" "5511128" "5586191" "5978490" "6005953" "6272229").PN. | USPAT | 2004/06/01 14:31 |
| | 2 | de-19818611\$.did. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/01 15:57 |
| | 2 | wo-9846043\$.did. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/01 15:57 |
| | 4 | 4236040.URPN. | USPAT | 2004/06/01 16:24 |
| | 7 | ("5051964" "5465302" "5715319" "5778083" "5787183" "6243471" "6317501").PN. | USPAT | 2004/06/01 17:03 |
| | 1 | 6148077.URPN. | USPAT | 2004/06/02 10:06 |
| | 3 | ("5528663" "5950139" "6023779").PN. | USPAT | 2004/06/02 10:07 |
| | 6 | 4777649.URPN. | USPAT | 2004/06/02 14:02 |
| | 375 | 381/92.ccis. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/02 16:16 |
| | 391 | microphone near2 (orient\$5) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/02 16:36 |
| | 116 | microphone near2 (orient\$5) with (\$4speaker source mouth nose) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/02 16:38 |
| | 5 | ("5001746" "5134649" "5995599" "6102856" "6219408").PN. | USPAT | 2004/06/02 16:41 |
| | 8 | ("2184247" "2301744" "2305599" "2396222" "3403223" "3573399" "3876947" "3881177").PN. | USPAT | 2004/06/02 16:58 |
| | 4 | ("4006310" "5473701" "5586191" "5740256").PN. | USPAT | 2004/06/02 17:08 |
| | 10 | ("4354059" "4393275" "4412097" "4589136" "4741038" "4752961" "4870690" "4941187" "5214709" "5303307").PN. | USPAT | 2004/06/02 17:08 |
| | 4 | ("5208864" "5414776" "5602962" "5673327").PN. | USPAT | 2004/06/02 17:12 |
| | 7 | ("3057960" "3109066" "5511128" "5586191" "5978490" "6005953" "6272229").PN. | USPAT | 2004/06/02 17:15 |
| | 7 | ("4354059" "4472742" "4550343" "4764817" "4862278" "5062010" "5193117").PN. | USPAT | 2004/06/02 17:18 |
| | 204 | 381/122.ccis. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/02 17:20 |
| | 7795 | 381/\$.ccis. and direction\$4 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/02 17:31 |

| | | | | |
|--|---------|---|------------------------------------|------------------|
| | 14 | elko.in. and omnidirectional | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/02 17:32 |
| | 21664 | omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/07 15:49 |
| | 139821 | phase near2 shift\$3 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/02 17:37 |
| | 2289 | (omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4) and (phase near2 shift\$3) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/02 17:37 |
| | 242221 | noise adj (attenuat\$4 cancel\$3 cancell\$5) directional | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/02 17:38 |
| | 246323 | ((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4) and (phase near2 shift\$3)) abd (noise adj (attenuat\$4 cancel\$3 cancell\$5) directional) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/02 17:38 |
| | 1719 | ((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4) and (phase near2 shift\$3)) and (noise adj (attenuat\$4 cancel\$3 cancell\$5) directional) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/02 17:38 |
| | 1701389 | subtract\$4 difference | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/02 17:38 |
| | 1270 | ((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4) and (phase near2 shift\$3)) and (noise adj (attenuat\$4 cancel\$3 cancell\$5) directional)) and (subtract\$4 difference) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/02 17:38 |
| | 31070 | 381/.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/02 17:39 |
| | 121 | (((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4) and (phase near2 shift\$3)) and (noise adj (attenuat\$4 cancel\$3 cancell\$5) directional)) and (subtract\$4 difference)) and 381/.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/02 17:43 |
| | 117230 | microphon\$4 input near2 transduc\$34 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/02 17:43 |
| | 93 | ((((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4) and (phase near2 shift\$3)) and (noise adj (attenuat\$4 cancel\$3 cancell\$5) directional)) and (subtract\$4 difference)) and 381/.ccls.) and (microphon\$4 input near2 transduc\$34) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/02 17:45 |
| | 1745 | (multi multiple) adj ((level near2 compar\$4) (threshold threshhold thresh adj hold)) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/02 17:47 |

| | | | | |
|--|--------|---|------------------------------------|------------------|
| | 0 | (((((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4) and (phase near2 shift\$3)) and (noise adj (attenuat\$4 cancel\$3 cancell\$5) directional)) and (subtract\$4 difference)) and 381/.ccls.) and (microphon\$4 input near2 transduc\$34)) and ((multi multiple) adj ((level near2 compar\$4) (threshold threshhold thresh adj hold))) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/02 17:47 |
| | 3 | ((multi multiple) adj ((level near2 compar\$4) (threshold threshhold thresh adj hold))) and ((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4) and (phase near2 shift\$3)) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/02 17:49 |
| | 9 | ((multi multiple) adj ((level near2 compar\$4) (threshold threshhold thresh adj hold))) and (omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/02 17:59 |
| | 2 | 4,066,842.pn. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/04 10:19 |
| | 14 | 4066842.URPN. | USPAT | 2004/06/02 18:00 |
| | 3 | ("4025894" "4485484" "4536887").PN. | USPAT | 2004/06/02 18:02 |
| | 2 | ("2982942" "4466117").PN. | USPAT | 2004/06/02 18:05 |
| | 2 | ("2982942" "4466117").PN. | USPAT | 2004/06/02 18:05 |
| | 19 | 4712244.URPN. | USPAT | 2004/06/02 18:05 |
| | 9 | ("4308425" "4466117" "4696043" "4703506" "4712244" "4742548" "5029215" "5058170" "5121426").PN. | USPAT | 2004/06/02 18:11 |
| | 4 | 5463694.URPN. | USPAT | 2004/06/02 18:13 |
| | 18 | 5226087.URPN. | USPAT | 2004/06/04 09:18 |
| | 19 | ("3571514" "3770911" "3798390" "3836732" "3875349" "3946168" "3975599" "4051330" "4142072" "4456795" "4622440" "4712244" "4723293" "4751738" "5029215" "5214709" "5226087" "5289544" "5524056").PN. | USPAT | 2004/06/04 13:25 |
| | 15 | 3975599.URPN. | USPAT | 2004/06/04 14:10 |
| | 10 | 5673325.URPN. | USPAT | 2004/06/04 14:38 |
| | 27 | "andrea, douglas".in. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/04 14:58 |
| | 336 | directional same handset | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/04 14:58 |
| | 60 | (omni non) adj directional same handset | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/04 14:58 |
| | 159177 | (shift\$3 adjust\$3) near2 phase | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/04 14:59 |
| | 3 | ((omni non) adj directional same handset) and ((shift\$3 adjust\$3) near2 phase) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/04 14:59 |
| | 24625 | (shift\$3 adjust\$3) near2 phase with second | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/04 15:00 |

| | | | | |
|-------|------|---|------------------------------------|------------------|
| | 7 | (directional same handset) and ((shift\$3 adjust\$3) near2 phase with second) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/04 15:00 |
| | 3 | ("3170046" "4672674" "5138664").PN. | USPAT | 2004/06/04 15:06 |
| | 35 | 4672674.URPN. | USPAT | 2004/06/04 15:08 |
| | 26 | 5381473.URPN. | USPAT | 2004/06/04 15:09 |
| | 17 | 5381473.URPN. and phase | USPAT | 2004/06/04 15:20 |
| | 7 | ("4584702" "4773091" "4850016" "5239578" "5260998" "5341420" "5381473").PN. | USPAT | 2004/06/04 15:14 |
| | 5 | 5473684.URPN. | USPAT | 2004/06/04 15:15 |
| | 4 | ("5381473" "5452361" "5473684" "5473702").PN. | USPAT | 2004/06/04 15:16 |
| | 0 | direction same hadnset | USPAT | 2004/06/04 15:20 |
| 874 | | direction same handset | USPAT | 2004/06/04 15:26 |
| | 1 | "4354059".PN. | USPAT | 2004/06/04 15:21 |
| | 16 | 4354059.URPN. | USPAT | 2004/06/04 15:22 |
| | 9 | ("4354059" "4393275" "4412097" "4589136" "4741038" "4752961" "4870690" "4941187" "5214709").PN. | USPAT | 2004/06/04 15:25 |
| | 19 | directional adj microphone same handset | USPAT | 2004/06/04 15:48 |
| | 19 | ("3571514" "3770911" "3798390" "3836732" "3875349" "3946168" "3975599" "4051330" "4142072" "4456795" "4622440" "4712244" "4723293" "4751738" "5029215" "5214709" "5226087" "5289544" "5524056").PN. | USPAT | 2004/06/04 15:46 |
| | 17 | 3770911.URPN. | USPAT | 2004/06/04 15:47 |
| | 24 | ("3770911" "3798390" "3835263" "3836732" "3870820" "3876843" "3909556" "4051330" "4142072" "4174469" "4456795" "4629833" "4852177" "5033090" "5068901" "5101435" "5201006" "5222050" "5319717" "5524056" "5535282" "5579398" "6122389" "6151399").PN. | USPAT | 2004/06/04 15:48 |
| | 2213 | directional with (non adj directional nondirectional) | USPAT | 2004/06/04 15:50 |
| 33450 | | automatic\$4 near2 switch\$3 | USPAT | 2004/06/04 15:50 |
| | 153 | directional with (nondirectional) | USPAT | 2004/06/04 15:50 |
| | 4 | (automatic\$4 near2 switch\$3) and (directional with (nondirectional)) | USPAT | 2004/06/04 15:52 |
| | 60 | (directional with (non adj directional nondirectional)) and (automatic\$4 near2 switch\$3) | USPAT | 2004/06/04 15:52 |
| | 3 | (directional with (non adj directional nondirectional)) same (automatic\$4 near2 switch\$3) | USPAT | 2004/06/04 15:56 |
| | 129 | 381/313.ccls. | USPAT | 2004/06/04 15:56 |
| | 6 | (automatic\$4 near2 switch\$3) and 381/313.ccls. | USPAT | 2004/06/04 16:31 |
| | 3 | 6389142.URPN. | USPAT | 2004/06/04 16:25 |
| | 12 | ("4399327" "4703506" "5033090" "5121426" "5128566" "5214709" "5463694" "5483599" "5524056" "5757933" "6339647" "6389142").PN. | USPAT | 2004/06/04 16:26 |
| | 2 | ("5305004" "5946402").PN. | USPAT | 2004/06/04 16:28 |
| | 0 | ep-820210-.did. | USPAT | 2004/06/04 16:31 |
| | 0 | ep-0820210-.did. | USPAT | 2004/06/04 16:36 |
| | 95 | adaptive adj beam adj form\$3 | USPAT | 2004/06/04 16:39 |
| | 1 | 5539859.pn. | USPAT | 2004/06/04 18:00 |
| | 13 | ("4112430" "4333170" "4653102" "4912767" "4918732" "4932063" "5208864" "5212764" "5214707" "5293450" "5319736" "5390280" "5400409").PN. | USPAT | 2004/06/04 16:51 |

| | | | | | |
|--|--|---|--|--|--|
| | | 13 | ("4112430" "4333170" "4653102" "4912767" "4918732" "4932063" "5208864" "5212764" "5214707" "5293450" "5319736" "5390280" "5400409").PN. | USPAT | 2004/06/04 17:18 |
| | | 5 | ("4594695" "4625083" "4630305" "4649505" "4737976").PN. | USPAT | 2004/06/04 17:25 |
| | | 9 | 5539859.URPN. | USPAT | 2004/06/04 17:26 |
| | | 19 | ("4630305" "5319736" "5335312" "5418857" "5473701" "5475761" "5539859" "5602962" "5610991" "5668747" "5680393" "5740256" "5742927" "5839101" "5903819" "5907624" "5953381" "5974373" "6175602").PN. | USPAT | 2004/06/04 17:29 |
| | | 19 | ("4521908" "4653102" "4703506" "4712244" "4712247" "4720712" "4741038" "4802227" "5193117" "5226087" "5233664" "5243660" "5260920" "5291556" "5301363" "5327143" "5347586" "5367506" "5581036").PN. | USPAT | 2004/06/04 17:52 |
| | | 13 | ("4112430" "4333170" "4653102" "4912767" "4918732" "4932063" "5208864" "5212764" "5214707" "5293450" "5319736" "5390280" "5400409").PN. | USPAT | 2004/06/04 17:59 |
| | 21410 198969 2119 42034 76 2 27 5 8 180405 952 31090 162 4 16014 2 19 27 4 | angle adj incidence compar\$4 with (level amplitude power) (angle adj incidence) and (compar\$4 with (level amplitude power)) microphone input adj transducer ((angle adj incidence) and (compar\$4 with (level amplitude power))) and (microphone input adj transducer) ("4489442" "4658425").PN. 4489442.URPN. ("3940575" "3992584" "4489442" "4567608" "4817168").PN. ("5400409" "5539859" "5581620" "5627799" "5754665" "5825898" "5917921" "6178248").PN. (angle direction) with (source input) (compar\$4 with (level amplitude power)) and (microphone input adj transducer) and ((angle direction) with (source input)) 381/.ccls. ((compar\$4 with (level amplitude power)) and (microphone input adj transducer) and ((angle direction) with (source input))) and 381/.ccls. ("5572591" "5680467" "5757933" "6539096").PN. difference with (first and second front and back) with (levels volume amplitude) ("4489442" "4658425").PN. 4752961.URPN. ((compar\$4 with (level amplitude power)) with ((angle direction) with (source Input))) and (microphone input adj transducer) and 381/.ccls. ("4006310" "5473701" "5586191" "5740256").PN. | USPAT USPAT USPAT USPAT USPAT USPAT USPAT USPAT USPAT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT | 2004/06/04 18:01 2004/06/04 18:01 2004/06/04 18:01 2004/06/04 18:01 2004/06/04 18:24 2004/06/04 18:06 2004/06/04 18:06 2004/06/04 18:12 2004/06/04 18:17 2004/06/04 18:24 2004/06/04 18:25 2004/06/04 18:25 2004/06/04 18:25 | 2004/06/04 18:01 2004/06/04 18:01 2004/06/04 18:01 2004/06/04 18:01 2004/06/04 18:24 2004/06/04 18:06 2004/06/04 18:06 2004/06/04 18:12 2004/06/04 18:17 2004/06/04 18:24 2004/06/04 18:25 2004/06/04 18:25 2004/06/04 18:25 2004/06/05 13:17 2004/06/04 18:26 2004/06/04 18:34 2004/06/04 18:42 2004/06/05 13:10 2004/06/05 13:18 2004/06/05 13:29 |

| | | | | |
|--|-----|---|------------------------------------|------------------|
| | 6 | ("4485484" "4536887" "4653102" "4802227" "4956867" "5267320").PN. | USPAT | 2004/06/05 13:45 |
| | 7 | ("3440350" "3662108" "4063031" "4485484" "4536887" "4559642" "4589137").PN. | USPAT | 2004/06/05 13:45 |
| | 19 | 5473701.URPN. | USPAT | 2004/06/05 13:46 |
| | 9 | ("4594695" "5418857" "5473701" "5475761" "5668747" "5680393" "5740256" "5742927" "5903819").PN. | USPAT | 2004/06/05 13:47 |
| | 16 | ("4223400" "4334740" "4354059" "4466117" "4703506" "5029215" "5193117" "5206910" "5214709" "5226087" "5303307" "5400409" "5471538" "5473701" "5477270" "5483599").PN. | USPAT | 2004/06/05 13:51 |
| | 1 | "4354059".PN. | USPAT | 2004/06/05 14:04 |
| | 18 | 5226087.URPN. | USPAT | 2004/06/05 14:04 |
| | 9 | 5539859.URPN. | USPAT | 2004/06/05 14:22 |
| | 560 | 375/349.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/05 14:26 |
| | 560 | 375/349.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/05 14:25 |
| | 187 | 375/349.ccls. and (direction angle) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/05 14:26 |
| | 28 | 375/349.ccls. and (direction angle) and (compar\$3 with (level amplitude volume)) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/05 14:29 |
| | 376 | 381/92.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/05 14:36 |
| | 2 | 6193134.pn. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/05 14:37 |
| | 2 | 6193234.pn. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/05 14:37 |
| | 2 | 6192134.pn. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/05 14:39 |
| | 2 | 5475195.pn. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/05 14:39 |
| | 2 | 5471195.pn. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/05 14:39 |
| | 267 | 381/92.ccls. and (angle direction) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/05 15:15 |
| | 7 | ("4584702" "4773091" "4850016" "5239578" "5260998" "5341420" "5381473").PN. | USPAT | 2004/06/05 14:57 |

| | | | | |
|--|--------|--|---|------------------|
| | 12 | 5341420.URPN. "roeck, hans-ueli".in. | USPAT | 2004/06/05 14:58 |
| | 12 | "hou, zezhang".in. | USPAT; | 2004/06/05 15:22 |
| | 23207 | (maximum maximiz\$3) near2 difference | US-PGPUB; EPO; JPO; DERWENT | 2004/06/05 15:28 |
| | 580592 | delay | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/05 15:30 |
| | 4401 | ((maximum maximiz\$3) near2 difference) and delay | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/05 15:30 |
| | 21686 | omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/05 15:31 |
| | 53 | ((maximum maximiz\$3) near2 difference) and delay) and (omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/05 15:33 |
| | 116403 | microphon\$3 input near2 transduc\$3 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/05 15:33 |
| | 15 | ((((maximum maximiz\$3) near2 difference) and delay) and (omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4)) and (microphon\$3 input near2 transduc\$3) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/05 16:11 |
| | 8942 | compar\$3 with difference with (threshold threshhold thresh adj hold) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/05 16:12 |
| | 2 | (compar\$3 with difference with (threshold threshhold thresh adj hold)) and 381/92.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 13:17 |
| | 54 | (compar\$3 with difference with (threshold threshhold thresh adj hold)) and 381/\$.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/05 16:13 |
| | 26 | (compar\$3 with difference with (threshold threshhold thresh adj hold)) and 381/\$.ccls. and microphon\$3 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/05 16:33 |
| | 2 | "20010028718" | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/05 16:33 |
| | 0 | (compar\$3 with difference with (reference)) and 381/92.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 13:17 |

| | | | | |
|--|----------|---|---|--------------------------------------|
| | 81 | (compar\$3 with difference with (reference)) and 381/\$.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 13:17 |
| | 31 | (compar\$3 with difference with (reference)) and 381/\$.ccls. and (direction\$4 angle) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 13:18 |
| | 3 376 | ("5727073" "5953380" "5978824").PN. 381/92.ccls. | USPAT USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 13:20 2004/06/06 13:53 |
| | 696 | (front forward) with more with (back rear) and (microphon\$3 input near2 transducer) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 13:54 |
| | 126 | ((front forward) with more with (back rear) and (microphon\$3 input near2 transducer)) and 381/\$.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 13:54 |
| | 12 | ((front forward) with more with (back rear) and (microphon\$3 input near2 transducer)) and (381/92.ccls.) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 13:54 |
| | 19 9 | 4752961.URPN. determin\$5 with desir\$4 with (off adj axis offaxis) | USPAT USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 14:10 2004/06/06 14:15 |
| | 42 | determin\$5 with source with (off adj axis offaxis) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 14:15 |
| | 114944 | microphon\$3 input near2 transducer | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 14:15 |
| | 117039 | microphon\$3 input near2 transducer | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 14:15 |
| | 1 | (determin\$5 with source with (off adj axis offaxis)) and (microphon\$3 input near2 transducer) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 14:26 |
| | 108 | 381/94.7.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 14:26 |
| | 62 | 381/94.7.ccls. and (phase angle) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 14:41 |
| | 22 | ("4672674" "4908855" "4912767" "5121426" "5131047" "5148471" "5201006" "5239578" "5251263" "5319736" "5323458" "5335276" "5343521" "5381473" "5406622" "5444786" "5452361" "5471538" "5473702" "5481615" "5493616" "5526421").PN. | USPAT | 2004/06/06 14:35 |
| | 35 | 4672674.URPN. | USPAT | 2004/06/06 14:39 |

| | | | | |
|--|-------|--|------------------------------------|------------------|
| | 62385 | (maximiz\$4 maximum) with difference | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 14:42 |
| | 1564 | (microphon\$3 input near2 transducer) and ((maximiz\$4 maximum) with difference) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 14:42 |
| | 1048 | ((microphon\$3 input near2 transducer) and ((maximiz\$4 maximum) with difference)) and (angle direction) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 14:43 |
| | 651 | ((microphon\$3 input near2 transducer) and ((maximiz\$4 maximum) with difference)) and (angle direction) and phase | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 14:43 |
| | 239 | ((((microphon\$3 input near2 transducer) and ((maximiz\$4 maximum) with difference)) and (angle direction) and phase) and (381/.ccls. telephon\$2)) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 14:49 |
| | 27816 | angular adj orientat\$4 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 14:49 |
| | 480 | (microphon\$3 input near2 transducer) and (angular adj orientat\$4) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 14:50 |
| | 443 | (microphon\$3 input near2 transducer) and (angular adj orientat\$4) and (first and second front and back forward and rear) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 14:50 |
| | 26 | ((microphon\$3 input near2 transducer) and (angular adj orientat\$4) and (first and second front and back forward and rear)) and 381/.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 15:10 |
| | 2 | ("5303307" "5511130").PN. | USPAT | 2004/06/06 15:02 |
| | 2 | 5651074.URPN. | USPAT | 2004/06/06 15:02 |
| | 2 | 5473684.pn. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 15:06 |
| | 52 | (angular adj orientat\$4) and 381/.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 15:38 |
| | 26 | (angular adj orientat\$4) and 381/.ccls. not (((microphon\$3 input near2 transducer) and (angular adj orientat\$4) and (first and second front and back forward and rear)) and 381/.ccls.) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 15:11 |
| | 7124 | (user\$2 near2 (mouth lip)) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 15:12 |
| | 605 | (user\$2 near2 (mouth lip)) same (arrang\$4 orient\$5) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 15:12 |
| | 63 | ((user\$2 near2 (mouth lip)) same (arrang\$4 orient\$5)) and 379/.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 15:35 |

| | | | | |
|--|--------|---|------------------------------------|------------------|
| | 376 | 381/92.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 15:36 |
| | 50 | 381/92.ccls. and (mouth lip) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 15:37 |
| | 160879 | (predetermined pre adj determined) near2 (angle direction) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 15:38 |
| | 8518 | (differ differen\$3) with (predetermined pre adj determined) near2 (angle direction) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 15:38 |
| | 44 | ((differ differen\$3) with (predetermined pre adj determined) near2 (angle direction)) and 381/\$.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 15:39 |
| | 26 | "berndi, robert".in. "burson, steven".in. "gollbach, lawrence".in. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/06 15:47 |
| | 1 | "4354059".PN. | USPAT | 2004/06/07 11:42 |
| | 16 | 4354059.URPN. | USPAT | 2004/06/07 11:42 |
| | 4 | ("4414433" "4703506" "5027393" "5075687").PN. | USPAT | 2004/06/07 11:50 |
| | 15 | 5384843.URPN. | USPAT | 2004/06/07 11:51 |
| | 6 | ("4953217" "5182774" "5251263" "5384843" "5473702" "5481615").PN. | USPAT | 2004/06/07 11:53 |
| | 13 | ("4112430" "4333170" "4653102" "4912767" "4918732" "4932063" "5208864" "5212764" "5214707" "5293450" "5319736" "5390280" "5400409").PN. | USPAT | 2004/06/07 12:33 |
| | 3 | ("5033082" "5131047" "5251263").PN. | USPAT | 2004/06/07 12:36 |
| | 24 | 4741038.URPN. | USPAT | 2004/06/07 12:47 |
| | 2 | 5384843.bn. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/07 12:59 |
| | 35736 | handset hand adj set | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/07 13:03 |
| | 232480 | directional | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/07 13:03 |
| | 2300 | (handset hand adj set) and directional | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/07 13:03 |
| | 22 | ("4672674" "4908855" "4912767" "5121426" "5131047" "5148471" "5201006" "5239578" "5251263" "5319736" "5323458" "5335276" "5343521" "5381473" "5406622" "5444786" "5452361" "5471538" "5473702" "5481615" "5493616" "5526421").PN. | USPAT | 2004/06/07 13:05 |
| | 6 | 4777649.URPN. | USPAT | 2004/06/07 13:23 |
| | 6 | ("3480912" "4158750" "4357491" "4445229" "4662847" "4700392").PN. | USPAT | 2004/06/07 13:24 |

| | | | | | |
|--|-------|--------|--|------------------------------------|------------------|
| | | 3 | 4445229.URPN. | USPAT | 2004/06/07 13:25 |
| | | 8 | ("3116365" "3495908" "3532815" "3544715" "3567848" "3755623" "3970792" "4139734").PN. | USPAT | 2004/06/07 13:26 |
| | | 1 | "4354059".PN. | USPAT | 2004/06/07 15:43 |
| | 21695 | | omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/07 15:50 |
| | | 237897 | (adjust\$3 vary\$3 shift\$4) with phase | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/07 15:50 |
| | | 285631 | (adjust\$3 vary\$3 shift\$4) with (phase delay) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/07 15:51 |
| | | 180 | (omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4) and ((adjust\$3 vary\$3 shift\$4) with (phase delay)) and (handset hand adj set) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/07 15:54 |
| | | 116063 | microphone input near2 transducer | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/07 15:54 |
| | | 51 | ((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4) and ((adjust\$3 vary\$3 shift\$4) with (phase delay)) and (handset hand adj set)) and (microphone input near2 transducer) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/07 16:14 |
| | | 26 | 381/92.ccls. and 381/94.7.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/07 16:19 |
| | | 108 | 381/94.7.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/07 16:19 |
| | | 23 | 381/94.7.ccls. and (omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/07 16:33 |
| | | 3 | ("4769847" "5233667" "5243661").PN. | USPAT | 2004/06/07 16:21 |
| | | 3 | ("4769847" "5233667" "5243661").PN. | USPAT | 2004/06/07 16:22 |
| | | 4 | 5563954.URPN. | USPAT | 2004/06/07 16:22 |
| | | 7 | ("3057960" "3109066" "5511128" "5586191" "5978490" "6005953" "6272229").PN. | USPAT | 2004/06/07 16:26 |
| | | 423 | "masuda, hiroyuki".in. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/07 16:34 |
| | | 23 | "masuda, hiroyuki".in. and telephone | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/07 16:37 |
| | | 1383 | adapt\$3 near delay | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/07 16:37 |
| | | 4601 | adapt\$3 near3 delay | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/07 16:37 |

| | | | | |
|--|--------|---|------------------------------------|------------------|
| | 59 | (adapt\$3 near3 delay) and (omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4) and ((adjust\$3 vary\$3 shift\$4) with (phase delay)) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/07 16:37 |
| | 16 | (adapt\$3 near3 delay) and (omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4) and ((adjust\$3 vary\$3 shift\$4) with (phase delay)) and (microphone input near2 transducer) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/07 16:40 |
| | 0 | 5757933.ccis. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/07 16:40 |
| | 2 | 5757933.pn. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/07 17:13 |
| | 10 | "andrea, douglas".in. and "topf, martin".in. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/07 18:07 |
| | 4 | ("4414433" "4703506" "5027393" "5075687").PN. | USPAT | 2004/06/07 17:53 |
| | 15 | 5384843.URPN. | USPAT | 2004/06/07 17:53 |
| | 7 | 3875349.URPN. | USPAT | 2004/06/07 18:02 |
| | 1711 | (omnidirectional nondirectional) with (directional unidirectional) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/07 18:08 |
| | 90 | ((omnidirectional nondirectional) with (directional unidirectional)) and (handset hand adj set) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/07 18:12 |
| | 38274 | handset hand adj set | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 16:40 |
| | 564367 | handset hand adj set telephone | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 16:40 |
| | 14951 | ((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4) same ((uni adj direction\$4 unidirection\$4 direction\$4) (cardioid cardioid))) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/10 11:20 |
| | 15875 | ((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4 zeroth adj order) same ((uni adj direction\$4 unidirection\$4 direction\$4) (cardioid cardioid) (first second) adj order)) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 17:01 |
| | 2670 | (handset hand adj set telephone) and (((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4 zeroth adj order) same ((uni adj direction\$4 unidirection\$4 direction\$4) (cardioid cardioid) (first second) adj order))) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 16:42 |
| | 486 | (handset hand adj set telephone) same (((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4 zeroth adj order) same ((uni adj direction\$4 unidirection\$4 direction\$4) (cardioid cardioid) (first second) adj order))) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 16:42 |
| | 132 | (handset hand adj set telephone) same (((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4 zeroth adj order) same ((uni adj direction\$4 unidirection\$4 direction\$4) (cardioid cardioid) (first second) adj order))) same switch\$3 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 16:42 |

| | | | | |
|--|------|--|---|------------------|
| | 47 | ("3755625" "3906431" "4070547" "4072821" "4096353" "4131760" "4198705" "4237339" "4254417" "4305141" "4308425" "4334740" "4399327" "4410770" "4414433" "4436966" "4449238" "4466117" "4485484" "4489442" "4521908" "4559642" "4653102" "4658425" "4669108" "4696043" "4703506" "4712231" "4712244" "4741038" "4752961" "4815132" "4860366" "4903247" "5058170" "5121426" "5214709" "5226087" "5243660" "5463694" "5483599" "5500903" "5506908" "5561737" "5664021" "5703957" "5737431").PN. | USPAT | 2004/06/08 16:46 |
| | 6 | 5483599.URPN. | USPAT | 2004/06/08 16:48 |
| | 9 | ("5483599" "5515445" "5524056" "5627799" "5757933" "5917921" "5978490" "6002776" "6101258").PN. | USPAT | 2004/06/08 16:49 |
| | 3 | ("3542954" "4653102" "5226087").PN. | USPAT | 2004/06/08 16:51 |
| | 19 | ("3571514" "3770911" "3798390" "3836732" "3875349" "3946168" "3975599" "4051330" "4142072" "4456795" "4622440" "4712244" "4723293" "4751738" "5029215" "5214709" "5226087" "5289544" "5524056").PN. | USPAT | 2004/06/08 16:57 |
| | 120 | ((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4 zeroth adj order) same ((uni adj direction\$4 unidirection\$4 direction\$4) (cardiod cardioid) (first second) adj order)) and 381/92.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 17:02 |
| | 2597 | ((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4 zeroth adj order) same ((uni adj direction\$4 unidirection\$4 direction\$4) (cardiod cardioid) (first second) adj order)) and telephone | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 19:17 |
| | 140 | ((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4 zeroth adj order) same ((uni adj direction\$4 unidirection\$4 direction\$4) (cardiod cardioid) (first second) adj order)) and telephone and 381/\$.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 17:16 |
| | 1 | 3794766.pn. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 17:05 |
| | 21 | 4131760.URPN. | USPAT | 2004/06/08 17:06 |
| | 57 | ((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4 zeroth adj order) same ((uni adj direction\$4 unidirection\$4 direction\$4) (cardiod cardioid) (first second) adj order)) and telephone and 381/\$.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 19:17 |
| | 2 | ("3876843" "4142072").PN. | USPAT | 2004/06/08 17:30 |
| | 2 | 5933510.URPN. | USPAT | 2004/06/08 17:30 |
| | 13 | ("2950357" "3770911" "3835263" "3875349" "3983336" "4073366" "4393270" "4399327" "4703506" "5058171" "5121426" "5131046" "5214709").PN. | USPAT | 2004/06/08 17:33 |
| | 3 | ("4334740" "4653102" "4888807").PN. | USPAT | 2004/06/08 17:36 |
| | 15 | ("4042779" "4072821" "4258235" "4308425" "4334740" "4354059" "4412097" "4485484" "4491697" "4521908" "4559642" "4653102" "4675906" "4703506" "4757545").PN. | USPAT | 2004/06/08 17:38 |
| | 11 | 4888807.URPN. | USPAT | 2004/06/08 17:41 |
| | 9 | ("4195360" "4215241" "4412097" "4536887" "4559642" "4589137" "4653102" "4696043" "4888807").PN. | USPAT | 2004/06/08 18:13 |
| | 0 | 791418.pn, | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 18:14 |

| | | | | |
|--|-------|--|------------------------------------|------------------|
| | 2 | 791418.pn. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 18:15 |
| | 10 | "791418" | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 18:15 |
| | 378 | 381/92.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 18:21 |
| | 13 | 2336880.pn. 2516776.pn. 2535681.pn. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 18:21 |
| | 17 | 2336880.pn. 2516776.pn. 2535681.pn. 2632101.pn. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 18:22 |
| | 10 | 5757933.URPN. | USPAT | 2004/06/08 18:48 |
| | 7 | ("4370523" "4589137" "4741038" "4802227" "4888807" "5033082" "5243661").PN. | USPAT | 2004/06/08 18:57 |
| | 5651 | ((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4 zeroth adj order) same ((uni adj direction\$4 unidirection\$4 (direction\$4 not non adj direction\$4 not omni adj direction\$4)) (cardioid cardioid) (first second) adj order)) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 19:02 |
| | 15875 | ((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4 zeroth adj order) same (uni adj direction\$4 unidirection\$4 (direction\$4) (cardioid cardioid) (first second) adj order)) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 19:03 |
| | 1627 | ((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4 zeroth adj order) same (uni adj direction\$4 unidirection\$4 (cardioid cardioid) (first second) adj order)) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 19:04 |
| | 342 | ((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4 zeroth adj order) same (uni adj direction\$4 unidirection\$4 (cardioid cardioid) (first second) adj order)) same (above greater) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 19:04 |
| | 86 | ((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4 zeroth adj order) same (uni adj direction\$4 unidirection\$4 (cardioid cardioid) (first second) adj order)) same (above greater) same (less lesser below) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 19:04 |
| | 15 | (((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4 zeroth adj order) same (uni adj direction\$4 unidirection\$4 (cardioid cardioid) (first second) adj order)) same (above greater) same (less lesser below)) and (microphone input adj transducer)) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 19:13 |
| | 13 | ("2950357" "3770911" "3835263" "3875349" "3983336" "4073366" "4393270" "4399327" "4703506" "5058171" "5121426" "5131046" "5214709").PN. | USPAT | 2004/06/08 19:08 |
| | 94 | 381/122.ccls. and (direction angle) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 19:14 |
| | 89 | 381/122.ccls. and (direction angle) and (two pair second reference) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 19:17 |

| | | | | |
|--|--------|--|------------------------------------|------------------|
| | 1627 | ((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4 zeroth adj order) same ((uni adj direction\$4 unidirection\$4) (cardiod cardioid) (first second) adj order)) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 19:17 |
| | 19837 | ((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4 zeroth adj order) and ((uni adj direction\$4 unidirection\$4 direction\$4) (cardiod cardioid) (first second) adj order)) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 19:18 |
| | 32 | (381/122.ccls. and (direction angle) and (two pair second reference)) and (((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4 zeroth adj order) and ((uni adj direction\$4 unidirection\$4 direction\$4) (cardiod cardioid) (first second) adj order))) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/08 19:18 |
| | 27 | 4489442.URPN. | USPAT | 2004/06/08 19:19 |
| | 1 | "4354059".PN. | USPAT | 2004/06/08 19:27 |
| | 5 | ("5058170" "5193117" "5226087" "5524059" "5729507").PN. | USPAT | 2004/06/08 19:28 |
| | 2 | ("2324548" "4305141").PN. | USPAT | 2004/06/08 19:28 |
| | 24 | 381/358.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/10 10:09 |
| | 159 | 381/356.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/10 10:39 |
| | 6 | 2301744.URPN. | USPAT | 2004/06/10 10:17 |
| | 21 | ("3213372" "3437758" "3496481" "3588360" "3601530" "3751602" "3755625" "3814856" "3818139" "3944736" "3947639" "3958084" "3979563" "3992584" "4006310" "4090032" "4099025" "4149032" "4198705" "4215241" "4359602").PN. | USPAT | 2004/06/10 10:32 |
| | 46 | "3409738" "3437758" "3448217" "3497622" | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/10 10:40 |
| | 12 | 3409738.pn. 3437758.pn. 3448217.pn. 3497622.pn. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/10 11:10 |
| | 3 | ("2457199" "2994081" "4114157").PN. | USPAT | 2004/06/10 10:50 |
| | 94 | 381/56.ccls. and (direction angle) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/10 11:11 |
| | 116593 | microphone\$3 input near2 transduc\$3 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/10 11:11 |
| | 56 | (381/56.ccls. and (direction angle)) and (microphone\$3 input near2 transduc\$3) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/10 11:17 |
| | 151 | 381/313.ccls. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/10 11:19 |
| | 14966 | ((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4) same ((uni adj direction\$4 unidirection\$4 direction\$4) (cardiod cardioid))) | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/10 11:22 |

| | | | | |
|--|-----|---|------------------------------------|------------------|
| | 518 | ((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4) same ((uni adj direction\$4 unidirection\$4 direction\$4) (cardiod cardioid))) same automatic\$4 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/10 11:22 |
| | 26 | ((omni adj direction\$4 omnidirection\$4 non adj direction\$4 nondirection\$4) same ((uni adj direction\$4 unidirection\$4 direction\$4) (cardiod cardioid))) same automatic\$4 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/10 11:22 |
| | 3 | 5625684.URPN. | USPAT | 2004/06/10 11:37 |
| | 22 | ("4672674" "4908855" "4912767" "5121426" "5131047" "5148471" "5201006" "5239578" "5251263" "5319736" "5323458" "5335276" "5343521" "5381473" "5406622" "5444786" "5452361" "5471538" "5473702" "5481615" "5493616" "5526421").PN. | USPAT | 2004/06/10 11:37 |
| | 9 | ("4153815" "4473906" "4610024" "4631749" "4654871" "4739513" "4977600" "5105377" "5182774").PN. | USPAT | 2004/06/10 12:02 |
| | 1 | "6272229".PN. | USPAT | 2004/06/10 12:06 |
| | 9 | ("5483599" "5515445" "5524056" "5627799" "5757933" "5917921" "5978490" "6002776" "6101258").PN. | USPAT | 2004/06/10 12:06 |
| | 4 | ("2950357" "3983336" "4073366" "5214709").PN. | USPAT | 2004/06/10 12:08 |
| | 4 | ("2678967" "4354059" "4757545" "5029215").PN. | USPAT | 2004/06/10 12:08 |
| | 4 | ("4536887" "4802227" "5473701" "5475761").PN. | USPAT | 2004/06/10 12:42 |
| | 5 | ("4228531" "4485484" "4536887" "4559642" "4581758").PN. | USPAT | 2004/06/10 12:47 |
| | 15 | 5473702.URPN. | USPAT | 2004/06/10 12:55 |
| | 0 | 6320968.URPN. | USPAT | 2004/06/10 13:01 |
| | 24 | ("4153815" "4604501" "4672674" "4736432" "4878188" "4901354" "4932063" "5033082" "5046103" "5054078" "5117461" "5138664" "5204909" "5293578" "5381473" "5398286" "5412735" "5416844" "5455779" "5473702" "5652799" "5835608" "5917921" "5953380").PN. | USPAT | 2004/06/10 13:01 |
| | 4 | 2237298.pn. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/10 13:08 |
| | 15 | ("4042779" "4072821" "4258235" "4308425" "4334740" "4354059" "4412097" "4485484" "4491697" "4521908" "4559642" "4653102" "4675906" "4703506" "4757545").PN. | USPAT | 2004/06/10 13:46 |
| | 16 | 4354059.URPN. | USPAT | 2004/06/10 13:50 |
| | 7 | 3875349.URPN. | USPAT | 2004/06/10 13:57 |
| | 2 | 5825897.pn. | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/15 11:48 |
| | 5 | ("3951248" "4558178" "5210791" "5359647" "5422947").PN. | USPAT | 2004/06/16 10:38 |
| | 11 | accessor\$3 with tone adj generat\$3 | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/06/16 10:53 |

| | | | | |
|--|----|--|---|------------------|
| | 7 | accessor\$3 with tone adj generat\$3 and telephon\$3 | USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT; US-PGPUB; EPO; JPO; DERWENT USPAT | 2004/06/16 10:56 |
| | 22 | accessor\$3 with ringer and telephon\$3 | | 2004/06/16 10:56 |
| | 14 | ("Re31398" "3467788" "3864532" "4157459" "4251807" "4278851" "4409588" "4413253" "4574272" "4602245" "4604606" "4728933" "4823110" "4845748").PN. | | 2004/06/16 11:01 |
| | 2 | 5490219.URPN. | USPAT | 2004/06/16 11:07 |
| | 5 | ("3940575" "3992584" "4489442" "4567608" "4817168").PN. | USPAT | 2004/06/16 11:11 |
| | 4 | ("4536887" "4802227" "5473701" "5475761").PN. | USPAT | 2004/06/23 11:57 |